In the Claims

Claims 1-10. (Cancelled)

11. (Currently Amended) A high-strength steel sheet having excellent deep

drawability, an average r value of 1.2 or more, and a composition, which is free of V, comprising

by % by mass:

C: about 0.010 to about 0.050%;

Si: about 1.0% or less;

Mn: about 1.0 to about 3.0%;

P: about 0.005 to about 0.1%:

S: about 0.01% or less;

Al: about 0.005 to about 0.5%:

N: about 0.01% or less:

Nb: about 0.01 to about 0.3%; and

the balance substantially including Fe and inevitable impurities, the Nb and C contents in steel satisfying the relation, (Nb/93)/(C/12) = 0.2 to [[0.71]] less than 0.5 (wherein Nb and C represent

the contents (% by mass) of the respective elements), and the steel microstructure containing a

ferrite phase and a martensite phase at area ratios of about 50% or more and about 1% or more.

respectively, and having a grain size of 8 µm or less.

12. (Previously Presented) The high-strength steel sheet having excellent deep

drawability according to claim 11, wherein the steel sheet satisfies the following relation

between normalized X-ray integrated intensity ratios of (222) plane, (200) plane, (110) plane,

and (310) plane parallel to the sheet plane at a 1/4 thickness of the steel sheet:

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P(222)/{P(200) + P(110) + P(310)} 1.5 (wherein P(222), P(200), P(110), and P(310) are the normalized X-ray integrated intensity ratios of the (222) plane, (200) plane, (110) plane, and (310) plane, respectively, parallel to the sheet plane at a 1/4 thickness of the steel sheet).

- 13. (Previously Presented) The high-strength steel sheet having excellent deep drawability according to claim 11, further comprising at least one of Mo, Cr, Cu, and Ni in a total of about 0.5% by mass or less in addition to the composition.
- 14. (Previously Presented) The high-strength steel sheet having excellent deep drawability according to claim 11, further comprising about 0.1% by mass or less of Ti in addition to the composition, the contents of Ti, S, and N satisfying the following relation:

$$(Ti/48)/\{(S/32) + (N/14)\} \le 2.0$$

(wherein Ti, S, and N represents the contents (% by mass) of the respective elements).

- (Previously Presented) The high-strength steel sheet having excellent deep drawability according to claim 11, further comprising a plated layer on a surface thereof.
- 16. (Currently Amended) A process for producing a high-strength steel sheet having excellent deep drawability, the process comprising a hot rolling step of finish-rolling a steel slab by hot rolling at a finisher delivery temperature of about 800°C or more to form a hot-rolled sheet having a grain size of 8 μm or less and coiling the hot-rolled sheet at a coiling temperature of about 400 to about 720°C, a cold rolling step of cold-rolling the hot-rolled sheet to form a cold-rolled sheet, and a cold-rolled sheet annealing step of annealing the cold-rolled sheet at an annealing temperature of about 800 to about 950°C and then cooling the annealed sheet in a temperature range from the annealing temperature to about 500°C at an average cooling rate of about 5 °C/s or more, the steel slab having a composition, which is free of V, comprising by % by mass:

C: about 0.010 to about 0.050%;

Si: about 1.0% or less:

Mn; about 1.0 to about 3.0%;

P: about 0.005 to about 0.1%;

S: about 0.01% or less;

Al: about 0.005 to about 0.5%;

N: about 0.01% or less; and

Nb: about 0.01 to about 0.3%:

the Nb and C contents in steel satisfying the relation, (Nb/93)/(C/12) = 0.2 to [[0.7]] less than 0.5 (wherein Nb and C represent the contents (% by mass) of the respective elements).

17. (Currently Amended) A process for producing a high-strength steel sheet having excellent deep drawability, the process comprising a hot rolling step of hot-rolling a steel slab to form a hot-rolled sheet having an average crystal grain size of 8 µm or less, a cold rolling step of cold-rolling the hot-rolled sheet to form a cold-rolled sheet, and a cold-rolled sheet annealing step of annealing the cold-rolled sheet at an annealing temperature of about 800 to about 950°C and then cooling the annealed sheet in a temperature range from the annealing temperature to about 500°C at an average cooling rate of about 5 °C/s or more, the steel slab having a composition, which is free of V, comprising by % by mass:

C: about 0.010 to about 0.050%;

Si: about 1.0% or less:

Mn: about 1.0 to about 3.0%;

P: about 0.005 to about 0.1%;

S: about 0.01% or less:

Al: about 0.005 to about 0.5%:

N: about 0.01% or less; and

Nb: about 0.01 to about 0.3%;

the Nb and C contents in steel satisfying the relation, (Nb/93)/(C/12) = 0.2 to [[0.7]] less than 0.5 (wherein Nb and C represent the contents (% by mass) of the respective elements).

- 18. (Previously Presented) The process for producing the high-strength steel sheet having excellent deep drawability according to claim 16 or 17, wherein the steel slab further contains at least one of Mo, Cr, Cu, and Ni at a total of about 0.5% by mass or less in addition to the composition.
- 19. (Previously Presented) The process for producing the high-strength steel sheet having excellent deep drawability according to claim 16, wherein the steel slab further contains about 0.1% by mass or less of Ti in addition to the composition, the contents of Ti, S, and N satisfying the following relation:

$$(Ti/48)/\{(S/32) + (N/14)\} \le 2.0$$

(wherein Ti, S, and N represents the contents (% by mass) of the respective elements).

- 20. (Previously Presented) The process for producing the high-strength steel sheet having excellent deep drawability according to claim 16, further comprising a plating step of forming a plated layer on a surface of the steel sheet after the cold-rolled sheet annealing step.
- 21. (Previously Presented) The high-strength steel sheet having excellent deep drawability according to claim 12, further comprising at least one of Mo, Cr, Cu, and Ni in a total of about 0.5% by mass or less in addition to the composition.

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22. (Previously Presented) The high-strength steel sheet having excellent deep drawability according to claim 12, further comprising about 0.1% by mass or less of Ti in addition to the composition, the contents of Ti, S, and N satisfying the following relation:

$$(Ti/48)/\{(S/32) + (N/14)\} \le 2.0$$

(wherein Ti, S, and N represents the contents (% by mass) of the respective elements).

23. (Previously Presented) The high-strength steel sheet having excellent deep drawability according to claim 13, further comprising about 0.1% by mass or less of Ti in addition to the composition, the contents of Ti, S, and N satisfying the following relation:

$$(Ti/48)/\{(S/32) + (N/14)\} \le 2.0$$

(wherein Ti, S, and N represents the contents (% by mass) of the respective elements).

- (Previously Presented) The high-strength steel sheet having excellent deep drawability according to claim 12, further comprising a plated layer on a surface thereof.
- (Previously Presented) The high-strength steel sheet having excellent deep drawability according to claim 13, further comprising a plated layer on a surface thereof.
- (Previously Presented) The high-strength steel sheet having excellent deep drawability according to claim 14, further comprising a plated layer on a surface thereof.
- 27. (Previously Presented) The process for producing the high-strength-steel sheet having excellent deep drawability according to claim 17, further comprising a plating step of forming a plated layer on a surface of the steel sheet after the cold-rolled sheet annealing step.
- 28. (Previously Presented) The process for producing the high-strength steel sheet having excellent deep drawability according to claim 18, further comprising a plating step of forming a plated layer on a surface of the steel sheet after the cold-rolled sheet annealing step.

29. (Previously Presented) The process for producing the high-strength steel sheet having excellent deep drawability according to claim 19, further comprising a plating step of forming a plated layer on a surface of the steel sheet after the cold-rolled sheet annealing step.

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